Über die gesetzliche Gewährleistung hinausgehende Garantieangaben sind Herstellergarantien.

0.5W DC-DC Regulated Single Output Converter

SRS series

■ Features :

- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty

SELECTION GUIDE

ORDER NO.		SRS-0505	SRS-1205	SRS-2405	SRS-4805	SRS-0509	SRS-1209	SRS-2409	SRS-4809
OUTPUT	DC VOLTAGE	5V				9V			
	CURRENT RANGE	0 ~ 100mA				0 ~ 56mA			
	EFFICIENCY (TYP.)	60%				60%			

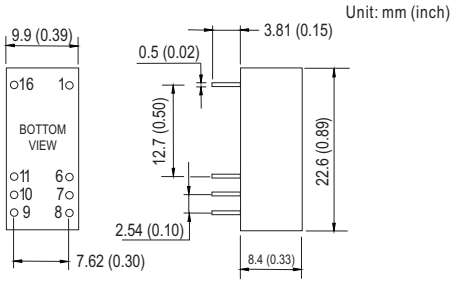
ORDER NO.		SRS-0512	SRS-1212	SRS-2412	SRS-4812	SRS-0515	SRS-1215	SRS-2415	SRS-4815
OUTPUT	DC VOLTAGE	12V				15V			
	CURRENT RANGE	0 ~ 42mA				0 ~ 34mA			
	EFFICIENCY (TYP.)	60%				60%			

SPECIFICATION

OUTPUT	RATED POWER		0.5W							
	RIPPLE & NOISE (max.) Note.2		100mVp-p							
	LINE REGULATION		±1.0%							
	LOAD REGULATION Note.3		±1.0%							
	VOLTAGE ACCURACY		±2.0%(Typ.) ±3.0%(max.)							
	SWITCHING FREQUENCY		50KHz min.							
INPUT	VOLTAGE RANGE		4.5 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	43.2 ~ 52.8V	4.5 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	43.2 ~ 52.8V
	NORMAL VOLTAGE		5V	12V	24V	48V	5V	12V	24V	48V
	INPUT CURRENT	Full load	175mA	72mA	36mA	19mA	175mA	72mA	36mA	19mA
		No load	37mA	15mA	9mA	5mA	37mA	15mA	9mA	5mA
	FILTER		Capacitor type							
	PROTECTION		Fuse recommended							
PROTECTION (Note. 4)	OVERLOAD		150 ~ 350% rated output power							
			Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	SHORT CIRCUIT		All output equipped with short circuit							
			Protection type : Hiccup mode, recovers automatically after fault condition is removed							
ENVIRONMENT	WORKING TEMP.		-25 ~ +71℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY		20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-25 ~ +105℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT		±0.03% / ℃(0 ~ 50℃)							
	VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes							
SAFETY & EMC	SAFETY STANDARDS		EAC TP TC 004 approved							
	WITHSTAND VOLTAGE		I/P-O/P:1KVDC							
	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25℃/ 70% RH							
	ISOLATION CAPACITANCE		80pF max.							
	EMC EMISSION		Compliance to EN55032 Class B, FCC part 15 Class B, EAC TP TC 020							
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020							
OTHERS	MTBF		600khrs min. MIL-HDBK-217F(25℃)							
	DIMENSION		22.6*9.9*8.4mm or 0.89"*0.39"*0.33" inch (L*W*H)							
	WEIGHT		3.1g							

■ Mechanical Specification

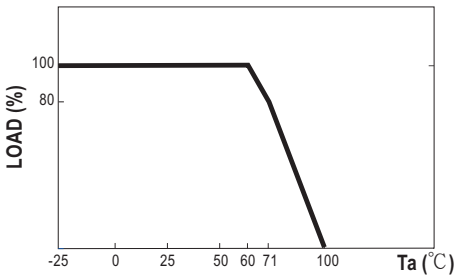
Unit: mm (inch)



■ Pin Configuration

Pin No.	Output
1 & 16	+Vin
6 & 11	-Vout
7 & 10	+Vout
8 & 9	-Vin

■ Derating Curve



NOTE

1.All parameters are specified at normal input, rated load, 25℃ 70% RH ambient.
2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
3.Load regulation is measured from 10% to 100% rated load.
4.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.